

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P393218

Luminaire Tested: **22EN-LD2-19-UNV-L82765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-19-UNV-L82765-W2A-1-U (2700K)
Description: 2X2 ENCOUNTER, 1900 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2012.5 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

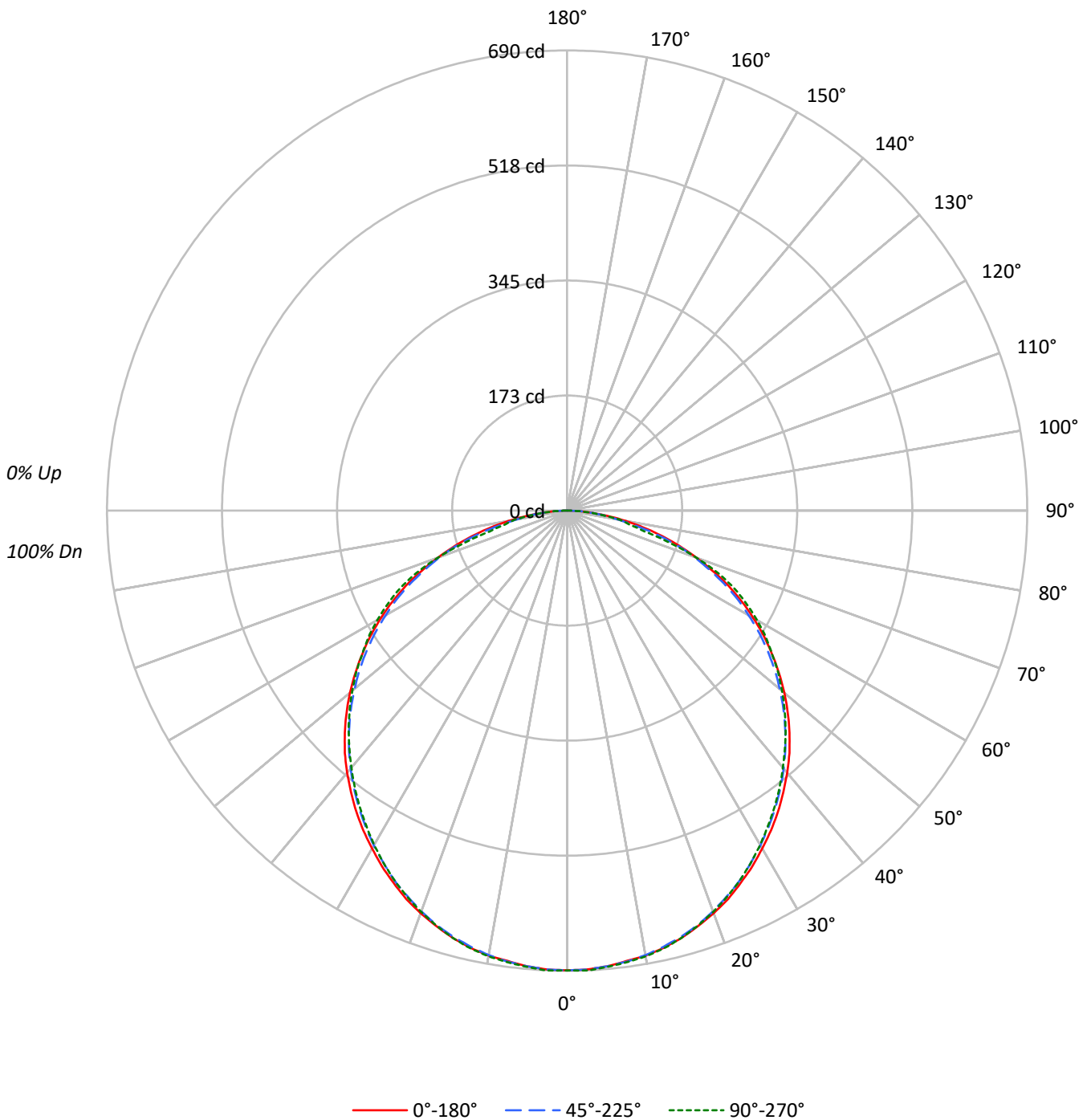
Input Watts (W): 16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1855	1855	1855
5°	1853	1853	1855
10°	1852	1849	1854
15°	1848	1842	1848
20°	1839	1831	1834
25°	1829	1818	1818
30°	1818	1801	1798
35°	1811	1787	1781
40°	1803	1774	1768
45°	1794	1760	1763
50°	1780	1742	1761
55°	1760	1722	1760
60°	1736	1692	1770
65°	1701	1654	1764
70°	1622	1594	1622
75°	1530	1455	1247
80°	1379	1182	1254
85°	1010	1037	1010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	3.2
10°-20°	186.7	9.3
20°-30°	282.3	14.0
30°-40°	341.1	17.0
40°-50°	358.2	17.8
50°-60°	331.6	16.5
60°-70°	261.5	13.0
70°-80°	146.2	7.3
80°-90°	39.5	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	534.2	26.5
0°-40°	875.4	43.5
0°-60°	1565.2	77.8
0°-90°	2012.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2012.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	690	690	690	690	690	
5°	686	685	686	686	687	65
15°	663	661	661	661	663	187
25°	616	614	612	610	612	284
35°	551	549	544	540	542	345
45°	472	468	462	460	463	364
55°	375	372	367	369	375	335
65°	267	263	260	269	277	263
75°	147	144	140	126	120	155
85°	33	33	34	34	33	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	689.5	689.5	689.5	689.5	689.5
2.5°	688.6	687.7	688.6	688.6	690.4
5°	685.9	685.0	685.9	685.9	686.8
7.5°	681.3	681.3	682.2	682.2	683.1
10°	677.7	676.8	676.8	676.8	678.6
12.5°	671.3	669.5	669.5	670.4	672.2
15°	663.2	661.3	661.3	661.3	663.2
17.5°	653.2	652.3	651.3	651.3	652.3
20°	642.3	640.4	639.5	639.5	640.4
22.5°	630.4	627.7	625.9	625.0	626.8
25°	615.9	614.1	612.3	610.5	612.3
27.5°	601.4	598.7	595.9	594.1	595.9
30°	585.0	583.2	579.6	576.9	578.7
32.5°	568.7	566.9	562.3	559.6	560.5
35°	551.4	548.7	544.1	540.5	542.3
37.5°	532.3	530.5	525.1	521.4	523.3
40°	513.3	510.5	505.1	501.5	503.3
42.5°	493.3	489.6	484.2	480.6	483.3
45°	471.5	467.8	462.4	459.7	463.3
47.5°	448.8	445.1	439.7	437.9	442.4
50°	425.1	422.4	416.1	416.1	420.6
52.5°	400.6	397.0	392.4	393.3	398.8
55°	375.2	372.5	367.0	368.8	375.2
57.5°	349.7	346.1	341.6	345.2	353.4
60°	322.5	318.9	314.3	320.7	328.9
62.5°	295.2	291.6	288.0	295.2	303.4
65°	267.1	263.4	259.8	268.9	277.1
67.5°	236.2	232.6	229.8	238.9	245.3
70°	206.2	202.6	202.6	203.5	206.2
72.5°	176.2	174.4	172.6	166.2	162.6
75°	147.2	144.4	139.9	126.3	119.9
77.5°	117.2	114.5	106.3	94.5	95.4
80°	89.0	86.3	76.3	79.0	80.9
82.5°	60.0	59.0	56.3	55.4	55.4
85°	32.7	32.7	33.6	33.6	32.7
87.5°	13.6	13.6	14.5	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)